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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,800	09/25/2006	Jun-ichi Matsuda	204309-9001	8035
	7590 11/20/200 ST & FRIEDRICH LL	EXAMINER		
Two Prudential Plaza			NGUYEN, NGA X	
180 North Stetson Avenue, Suite 2000 CHICAGO, IL 60601			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			11/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/566,800	MATSUDA, JUN-ICHI			
Office Action Summary	Examiner	Art Unit			
	NGA X. NGUYEN	3662			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>05 Sec</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice under Exp	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-6 and 73-78 is/are pending in the ap 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 and 73-78 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or  Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
10) ☐ The drawing(s) filed on 30 January 2006 is/are:  Applicant may not request that any objection to the o  Replacement drawing sheet(s) including the correcti  11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/25/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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## Election/Restrictions

1. Applicant's election without traverse, Embodiment 1 corresponding to claims 1-6 & 73-78 are drawn to a mobile communication network in outline in the reply filed on 9/05/2008 is acknowledged. Claims 7-72 & 79-144 are withdrawn.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claim 1 & 73 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - -"propagation time of radio signal between the two radio stations and the radio terminal" is unclear. Is that the time offset between a radio station and radio terminal?
  - "specifying a communication range ....to determine the candidate point included in the communication range of the two candidate points" is unclear. What is the communication range?

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1-6 & 73-78 are rejected under 35 U.S.C. 102(b) as being anticipated by Keramen (2002/0094820).

With regard to claim 1 & 73, Keramen discloses:

- There are two radio stations with two known geographical location (see page 3, paragraph 29).
- A radio terminal with an unknown geographical location (see page 3, paragraph
   30).
- Depicting two curves to determine two intersection points between the two curves as two candidate points for the geographical location of the radio terminal by using propagation time between two radio stations and the radio terminal (see page 3-4, paragraph 32-43).
- Determine the candidate point included in the communication range of the two candidate points as the geographical location of the radio terminal (see page 4, paragraph 42-43).

With regard to claim 2-3 & 74-75, Keramen teaches:

- Measure the propagation time and a difference of the propagation time of the radio signals between the radio station and the radio terminal in the step of finding two candidate points (see 4, paragraph 42).

With regard to claim 4 & 76, Keramen the mobile communication network comprising at least one radio terminal and at least two base stations (see page 4, paragraph 43).

With regard to claim 5-6 & 77-78, Keramen the radio terminal has a function to receive a signal from a GPS satellite, one of the radio stations is the base station, and the other of the radio stations is the GPS satellite. Or both radio stations are GPS satellites (see page 1, paragraph 4-6).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGA X. NGUYEN whose telephone number is (571)272-5217. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARCZA H. THOMAS can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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NXN

/Thomas H. Tarcza/ Supervisory Patent Examiner, Art Unit 3662